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April 2009, v. 001



CLIMATE CONTROL

AIR-COOLED CONDENSING UNITS WITH BITZER COMPRESSORS

Technical Guide

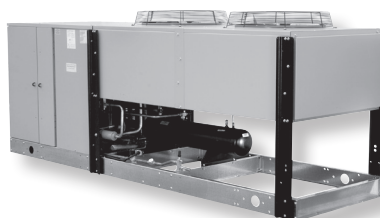


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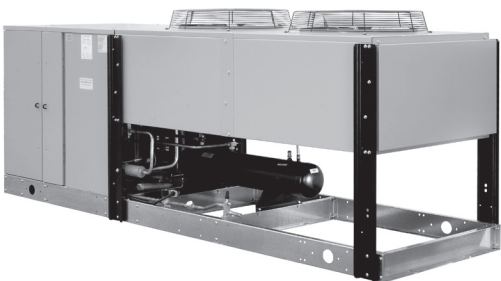
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Single And Dual Compressor Condensing Units

Feature Our Floating Tube™ Coil Design

Expanded (Locked) Auxiliary Tubes:

These tubes support the coil with fins and refrigerant carrying tubes. They do not carry refrigerant and are tightly fitted on end supports and center supports.

Free Floating Circuited Coil Tubes:

These tubes carry refrigerant and never touch and sheet metal (end supports and center supports).



*All units include a limited
Five Year Warranty
against condenser leaks at tube sheets and
center supports.*

All condensers use the Floating Tube™ coil design to eliminate refrigerant leaks at the tube sheets. Additional tubes are added to the condenser coil. These tubes are expanded into the aluminum fins and condenser tube sheets. These anchor tubes support the weight of the coil, but are not a part of the refrigerant circuit.

The tubes in the refrigerant circuit are expanded into the fins, but “float” through oversized holes in the tube sheets. Tube sheet leaks are virtually eliminated, since the tubes which carry refrigerant never come in contact with the tube sheet.

Options



E Solutions branded products and options are designed to exceed current energy and environmental standards. It is our commitment in environmental innovation to dedicate ourselves by delivering energy efficient eco-conscious choices. Products included in the **E Solutions** portfolio reduce costs, improve bottom lines, and enhance equipment performance and service life.

The Beacon II™ Refrigeration System with Smart Defrost and the factory-installed Smart Defrost Kit™ are **E Solutions** options that will optimize your savings and increase energy efficiency.

Beacon II™ Refrigeration System



Beacon II™ is the next generation of Climate Control's patented, preassembled, factory installed refrigeration system featuring an integrated microcomputer-based electronic control board. The Beacon II™ systems come completely factory installed, wired and tested saving you time and money.

Beacon II™ offers:

- Complete factory installation, wiring and testing which saves time and money
- Simple field electrical connections and 24 volt wiring between condensing and evaporator units
- Preset factory superheat allowing the system to run more efficiently and reducing future adjustments
- Monitors and controls box temperature, evaporator superheat, condenser fan cycling on two fan units, system status and defrost from outside the box
- Monitor and make system changes remotely via modem and exclusive Beacon II™ Smart II software
- Data logging capabilities with Smart Controller

Beacon II™ Smart Controller



Beacon II™ Smart Controller is an optional system monitoring and programming control device. It allows for adjustments to be made at the push of a button from a conveniently mounted location. The Beacon II™ Smart Controller also allows you to monitor and make changes to the refrigeration system via modem connection from anywhere in the world. The Beacon II™ has been updated to allow the user to make even more precise adjustments than the original Beacon's Smart Controller. One Smart Controller can program and control up to four separate condensing units with up to four evaporators on each system. That's more control in your hands!

Beacon II™ Smart II Software



Beacon II™ Smart II Software makes it easy to adjust and monitor one or more refrigeration systems as well as capture minute by minute system conditions. This

Windows-based software allows you to connect to the Beacon II™ Smart Controller from anywhere in the world to monitor the systems, make adjustments and log minute by minute system conditions. This data logging capability is critical in the food service industry.

Beacon II™ Smart Defrost



The Beacon II™ Smart Defrost, available only on the Beacon II™ Smart Controller, enables the Beacon II™ system to sense

frost accumulation and initiates defrost only when it is necessary. To begin, preset defrost times using the Beacon II™ Smart Controller. At each scheduled defrost time, Smart Defrost checks system performance to see if a defrost is necessary. If not, it simply does not defrost, waiting until the next scheduled defrost time.

Smart Defrost Kit™



The factory installed Smart Defrost Kit™ (SDK) skips unnecessary defrosts in commercial, electric defrost walk-in refrigeration systems saving energy, reducing costs and ultimately improving product integrity. The SDK is available as a factory-installed option on all condensing units.

HEAD PRESSURE CONTROL

Refrigeration condensing units must efficiently perform at varying ambient conditions. A properly sized unit will adequately perform at even the highest summer ambient temperatures. However, in situations where the system must operate the majority of the time at less than design temperature, a means of providing adequate head pressure for refrigerant flow is desirable. The CDV & CDD units have an adjustable method of head pressure control.

This system provides year round control of refrigerant head pressure without the use of special refrigerant expansion valves. As the ambient temperature falls, the receiver pressure is allowed to fall to a minimum of 75°F saturated condensing pressure. The reduced discharge pressure at the compressor increases the compressor capacity and lowers the input watts from the compressor motor. The system also uses the reduced ambient temperature to subcool the liquid refrigerant in the condenser. This subcooled liquid also increases system capacity. As a general rule, every one degree of subcooling results in 0.50% increase in system capacity. Together these result in greater efficiency, greater capacity, and reduced run time.

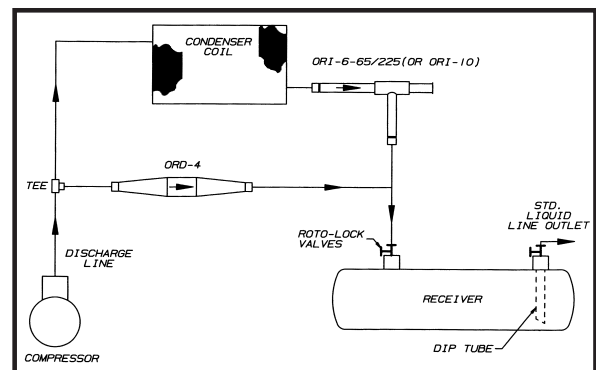
Benefits:

- Automatic year-round control of refrigerant head pressure without the use of special expansion valves.
- Energy savings in mild ambient conditions due to reduced compressor discharge pressure and refrigerant subcooling
- Provides easy restart during low ambient conditions.

Operation

As the ambient temperature falls, the system condensing pressure is also reduced. This pressure is maintained by a regulator (ORI-6-65/225) at the condenser drain. At approximately 75°F saturated condensing pressure the regulator restricts the flow of liquid refrigerant from the condenser causing the condenser to flood. This condenser flooding allows the liquid refrigerant in the condenser to become subcooled by the ambient air flowing through the condenser. As the regulator continues to flood the condenser, a pressure differential will be established between the receiver and the compressor discharge. At a predescribed differential, a second valve (ORD-4) will open and allow discharge gas from the compressor to bypass the condenser and flow into the top of the receiver. This gas is used to pressurize the receiver. These valves are adjustable and the minimum receiver pressure may be reset higher or lower depending upon application situations of a particular job.

Subcooled liquid is further enhanced by the routing of liquid from the receiver liquid line outlet to the condenser before leaving the condensing unit.



Bitzer Compressors

Features and Benefits



Bitzer is the world's largest manufacturer of semi-hermetic refrigeration compressors over 3 HP. In business since 1934, Bitzer has manufacturing plants in Germany, Brazil, Portugal, China and the United States and operates in over 100 countries around the world. Bitzer's Georgia plant manufactures a complete range of semi-hermetic compressors from 3 to 50 HP. Bitzer provides aftermarket support through wholesalers and also provides 24-hour replacement service from its seven distribution warehouses located across the U.S.

Bitzer Offers:

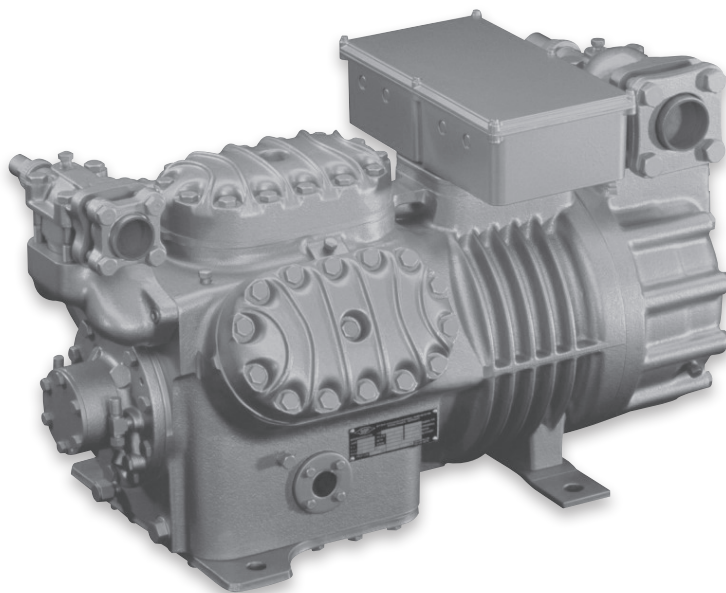
- **2-Year Warranty**
- Unloader Heads Standard on All 4 & 6-cylinder Models
- Dual Voltage Control Modules on All Models
- Dual Voltage Compressors (6 to 50 HP)
- Lowest Sound Levels in their Class (Built-in Mufflers)
- Superior Lubrication and Low Oil Circulation Rates
- German Engineering / Built in America

Bitzer Standard Execution	Octagon 4C Models	4B & 6B Models
POE Oil Charge	√	√
Protective Dry-Nitrogen Charge	√	√
Suction & Discharge Service Valves	√	√
Dual Voltage INT Protection Modules	√	√
Terminal Box Enclosure Class IP65	√	√
Unloader Heads	√	√
Patented Internal Mufflers	√	√
Centrifugal Oil System	√	√
Conventional Oil Pump	√	√
Bitzer Options	4C Models	4B & 6B
Mounting Hardware (Spring Kits)	√	√
Hard Mount Kits	√	√
Optical Oil Sensor	√	√
Crankcase Heaters	√	√
Unloader Stems / Coils	√	√
Head Fans and Brackets	√	√
Delta P II Differential Oil Pres. Switch	√	√



Bitzer Quiet!!!

Bitzer compressors are famous for their low sound levels. We change capacities within a frame size by changing our bore diameters rather than the length of the piston strokes. This gives our compressors an unsurpassed balance and precision that translates to low decibels. In addition, Bitzer compressors have a muffler built into each head (see photo) that eliminates pulsations and reduces the sound levels even further.

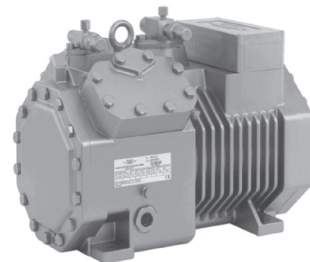


Bitzer Compressors

Features and Benefits

Octagon® 4C Models

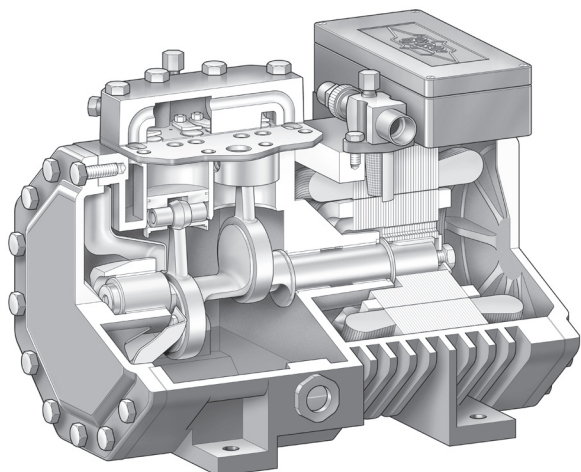
Bitzer Octagon 4C Models are rated from 3 to 20 HP. This rugged, compact series utilizes wear resistant drive gear with PTFE coated bearings for especially low friction, aluminum pistons of optimized geometry, connecting rods with eccentric straps and generously dimensioned bearing surfaces. Bitzer's centrifugal lubrication system eliminates the need for an oil pump and provides optimum oil supply to the compressor even under extreme operating conditions.



Centrifugal Lubrication

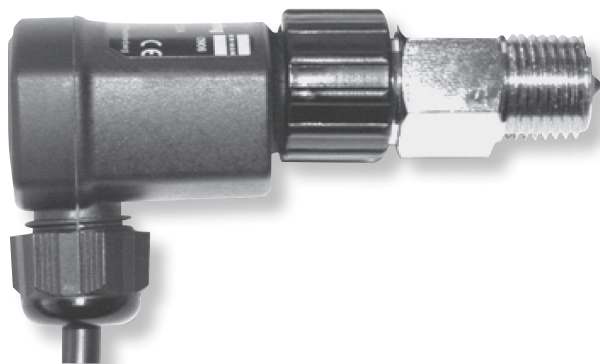
The centrifugal lubrication design employs a solid metal disc mounted to the crankshaft (see cut-away) that distributes oil into a reservoir at the end of the shaft. The oil then flows through the shaft to the bearing surfaces.

Bitzer offers an optional Optical Oil Sensor (See OLC-K1 photo below) that mounts to the outer cover of the compressor and monitors oil level by means of an infrared light.



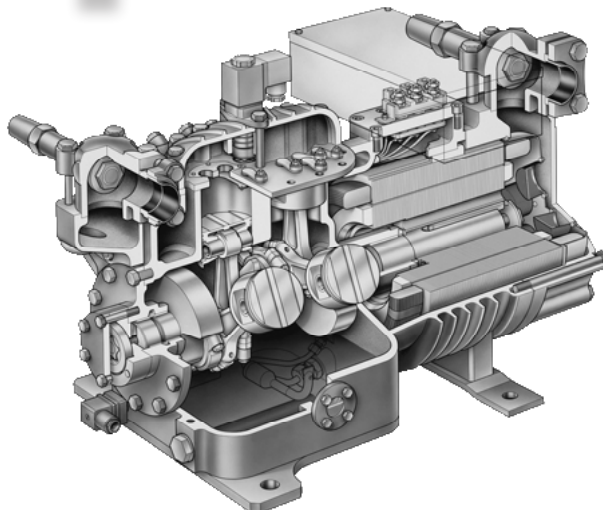
OLC-K1 Operating Principle

The OLC-K1 sensing device shines an infrared light into the oil reservoir. If oil is present, the light is absorbed and the compressor runs normally. If no oil is present, the light reflects on the sensor, and the compressor shuts off.



Bitzer 4B & 6B Models

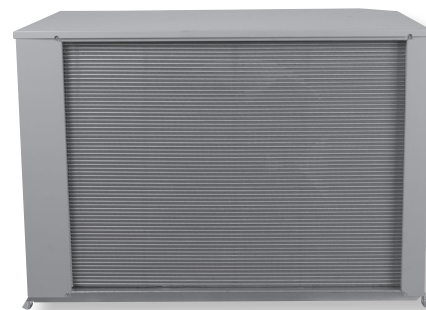
Bitzer 4B through 6B Models are rated from 13 to 50 HP. This series features surface hardened crank shafts, low friction bearings, aluminum pistons, hard chrome plated piston rings and special wrist pin bearings. The 4B & 6B models have a sealed main bearing and generously sized oil pump. Our patented oil return system ensures complete lubrication while reducing oil circulation into the system. Efficient capacity control is provided by unloader banks that can significantly reduce energy consumption.



Horizontal Air Discharge Condensing Units 4 to 13 HP

Standard and Optional Features

- Floating Tube™ coil design
- Rifled copper condenser tubing
- Designed for use with R-404A, R-507
- Prebent copper tubes minimize welded joints on internal piping
- Fixed high and adjustable low pressure controls.
- Oil safety control
- Head pressure control valve
- Bitzer compressors with POE oil
- Spring mounted compressor with suction and discharge vibration eliminators
- Crankcase heater
- Thermally protected, permanently lubricated ball bearing condenser fan motors
- Separate subcooling circuit in condenser for added capacity and vapor-free liquid
- Pressure relief valve on receiver
- Sealed liquid line filter drier and sight glass
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Service Mate™ module to assist troubleshooting
- Pumpdown Switch
- Cabinet is constructed from prepainted galvanized steel
- Base valve and high & low pressure taps on outside of unit
- Vertical receivers



Factory-Installed Options

- Oversized receiver
- Replaceable core liquid filter drier
- Liquid line solenoid valve
- Suction filter
- Replaceable core suction filter
- Suction accumulator
- Oil separator
- Air defrost timer
- Electric defrost kits, including timer, evaporator fan contactor with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Fusing for defrost kits
- Evaporator holdout relays for systems with multiple electric defrost evaporators
- Low ambient kit with heated and insulated receiver with time delay
- Fused disconnect switch
- Non-fused disconnect switch
- Phase-loss monitor
- Manual-reset high pressure switch
- Anti-short cycle timer
- Compressor circuit breakers
- Condenser fan cycling
- Coated condenser coils
- Copper finned coil
- Beacon II™ compatible
- Hail guards (shipped loose)
- Compressor unloading
- NEMA contactors
- 12" extended legs for snowbelt region (shipped loose)
- Slanted louver for snowbelt regions (shipped loose)
- Dual pressure control

Nomenclature

C	B	T	0000	L	6	C
Brand	Compressor	Application	Horsepower	Temp. Range	Refrigerant	Voltage
C = Climate Control	B = Bitzer	T = Outdoor N = Indoor S = Beacon II™	0401 - 4 0551 - 5 0601 - 6 0611 - 6 0751 - 7.5 0901 - 9 1001 - 10 1201 - 12 1301 - 13	M = Med. Temp. L = Low Temp.	6 = R-404A, R-507	C = 208-230/3/60 D = 460/3/60 E = 575/3/60

Performance Data

Medium Temperature R-404A/R-507

Unit Model Number	Compressor Model	Suction Temp. °F	90°F Amb.	95°F Amb.	100°F Amb.	110°F Amb.
CB*0551M6	4C0969SH	40	89700	85620	81720	74280
		30	75460	72064	68710	62010
		25	68740	65580	62440	56230
		20	62260	59360	56460	50730
		15	56190	53510	50870	45720
		5	45520	43270	41170	36550
CB*0751M6	4C1145SH	40	105280	100690	95530	86960
		30	88720	84739	80270	72380
		25	80750	76660	72960	65640
		20	72780	69360	65960	59210
		15	65640	62500	59380	53160
		5	53140	50500	47880	42700
CB*0901M6	4C1385SH	40	129090	124130	118700	107220
		30	108780	101623	99390	90050
		25	99120	94750	90440	81730
		20	89850	85870	81860	76750
		15	81200	77500	73800	66340
		5	65960	62760	59840	53950
CB*1001M6	4C1480PH	40	137470	131010	125080	113750
		30	115200	107509	105430	94630
		25	104860	100040	95260	85740
		20	94930	90550	86090	77130
		15	85670	81560	77450	69510
		5	69300	65840	62560	55590

Low Temperature R-404A/R-507

Unit Model Number	Compressor Model	Suction Temp. °F	90°F Amb.	95°F Amb.	100°F Amb.	110°F Amb.
CB*0401L6	4C0969SL	0	35200	33380	31560	28020
		-10	27690	26222	24690	21680
		-15	24440	23040	21620	18870
		-20	21520	20210	18930	16460
		-30	17090	16000	14930	12820
		-40	15030	14090	13200	11330
CB*0551L6	4C1145SL	0	42930	40770	38600	34290
		-10	33890	32073	30230	26620
		-15	29880	28200	26510	23190
		-20	26310	24770	23230	20270
		-30	20960	19650	18370	15830
		-40	18450	17320	16240	14010
CB*0601L6	4C1385SL	0	52890	50250	47530	42230
		-10	41590	39334	37070	32610
		-15	36690	34580	32480	28460
		-20	32320	30410	28510	24810
		-30	25910	24260	22630	19540
		-40	22910	21500	20090	17370
CB*0611L6	4C1480PL	0	56010	52610	49660	43790
		-10	43740	41241	38770	33850
		-15	38540	36230	33910	29460
		-20	33870	31750	29680	25640
		-30	26730	24980	23280	19980
		-40	23080	21650	20230	17430
CB*0751L6	4C1761PL	0	68040	64570	61090	54180
		-10	53710	50780	47800	41660
		-15	47320	44580	41840	36480
		-20	41590	39080	36600	31870
		-30	32760	30720	28700	24750
		-40	28200	26530	24910	21590
CB*1001L6	4C2067PL	0	78200	74200	70160	63210
		-10	61470	58050	54740	48110
		-15	54150	51030	47940	41820
		-20	47560	44700	41880	36370
		-30	37620	35240	32860	28310
		-40	32550	30500	28620	24710
CB*1201L6	4C2397PL	0	93390	88580	83830	74420
		-10	74920	69208	65150	57070
		-15	64440	60680	56890	49580
		-20	56560	53090	49680	43080
		-30	44620	41750	38850	33170
		-40	38400	36060	33630	28760
CB*1301L6	4B2707PL	0	105360	100530	95590	85790
		-10	83410	79221	75110	66870
		-15	73740	69890	66030	58590
		-20	65040	61530	58040	51230
		-30	51830	48880	45950	40350
		-40	45050	42600	40250	35390

*= T for Outdoors, N for Indoors, S for Beacon II™

Consult factory on all models for applications above 110°F ambient.

Electrical Data

Medium Temperature – R-404A/507

Unit Model Number	Compressor Model	Voltage Supply [^]	Compressor		Condenser Fan Motors			Beacon II™ or Air Defrost		Remote Loads [‡]			
		60 Hz	RLA	LRA	Qty.	HP	FLA	MCA [†]	MOP ^{††}	Electric Defrost			
										Evap. Fan Amps	Defrost Heater Amps	System MCA [†]	System MOP ^{††}
CB*0551M6C	4C0969SH	208-230/3	26.5	163.0	2	1/3	5.4	38.5	60	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CB*0551M6D	4C0969SH	460/3	12.8	66.5	2	1/3	3.8	19.8	30				
CB*0551M6E	4C0969SH	575/3	8.3	48.0	2	1/3	2.4	12.8	20				
CB*0751M6C	4C1145SH	208-230/3	29.0	215.0	2	1/3	5.4	41.7	70				
CB*0751M6D	4C1145SH	460/3	13.8	88.0	2	1/3	3.8	21.1	35				
CB*0751M6E	4C1145SH	575/3	10.3	63.5	2	1/3	2.4	15.3	25				
CB*0911M6C	4C1385SH	208-230/3	32.7	215.0	2	3/4	8.8	49.7	80				
CB*0911M6D	4C1385SH	460/3	16.3	88.0	2	3/4	4.4	24.8	40				
CB*0911M6E	4C1385SH	575/3	13.1	63.5	2	3/4	3.6	20	30				
CB*1001M6C	4C1480PH	208-230/3	38.5	222.0	2	3/4	8.8	56.9	90				
CB*1001M6D	4C1480PH	460/3	19.2	111.0	2	3/4	4.4	28.4	45				
CB*1001M6E	4C1480PH	575/3	15.4	89.0	2	3/4	3.6	22.9	35				

Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model	Voltage Supply [^]	Compressor		Condenser Fan Motors			Beacon II™ or Air Defrost		Remote Loads [‡]			
		60 Hz	RLA	LRA	Qty.	HP	FLA	MCA [†]	MOP ^{††}	Electric Defrost			
										Evap. Fan Amps	Defrost Heater Amps	System MCA [†]	System MOP ^{††}
CB*0401L6C	4C0969SL	208-230/3	16.7	142.0	1	1/3	2.7	23.6	40.0	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CB*0401L6D	4C0969SL	460/3	9.0	58.0	1	1/3	1.9	13.2	20.0				
CB*0401L6E	4C0969SL	575/3	7.0	51.5	1	1/3	1.2	10.0	15.0				
CB*0551L6C	4C1145SL	208-230/3	19.4	163.0	1	1/3	2.7	27.0	45.0				
CB*0551L6D	4C1145SL	460/3	10.6	66.5	1	1/3	1.9	15.2	25.0				
CB*0551L6E	4C1145SL	575/3	8.7	48.0	1	1/3	1.2	12.1	20.0				
CB*0601L6C	4C1385SL	208-230/3	24.9	215.0	2	1/3	5.4	36.5	60.0				
CB*0601L6D	4C1385SL	460/3	14.2	88.0	2	1/3	3.8	21.6	35.0				
CB*0601L6E	4C1385SL	575/3	10.8	63.5	2	1/3	2.4	15.9	25.0				
CB*0611L6C	4C1480PL	208-230/3	24.4	150.0	2	1/3	5.4	35.9	60.0				
CB*0611L6D	4C1480PL	460/3	12.2	75.0	2	1/3	3.8	19.1	30.0				
CB*0611L6E	4C1480PL	575/3	9.6	60.0	2	1/3	2.4	14.4	20.0				
CB*0751L6C	4C1761PL	208-230/3	28.2	180.0	2	1/3	5.4	40.7	60.0				
CB*0751L6D	4C1761PL	460/3	14.1	90.0	2	1/3	3.8	21.4	35.0				
CB*0751L6E	4C1761PL	575/3	12.2	72.0	2	1/3	2.4	17.7	30.0				
CB*1001L6C	4C2067PL	208-230/3	34.6	222.0	2	1/3	5.4	48.7	80.0				
CB*1001L6D	4C2067PL	460/3	17.3	111.0	2	1/3	3.8	25.4	40.0				
CB*1001L6E	4C2067PL	575/3	14.4	89.0	2	1/3	2.4	20.4	30.0				
CB*1201L6C	4C2397PL	208-230/3	39.7	252.0	2	3/4	8.8	58.4	90.0				
CB*1201L6D	4C2397PL	460/3	19.9	126.0	2	3/4	4.4	29.3	45.0				
CB*1201L6E	4C2397PL	575/3	15.9	101.0	2	3/4	3.6	22.5	35.0				
CB*1301L6C	4B2707PL	208-230/3	43.6	294.0	2	3/4	8.8	63.3	100.0				
CB*1301L6D	4B2707PL	460/3	21.8	147.0	2	3/4	4.4	31.7	50.0				
CB*1301L6E	4B2707PL	575/3	17.3	117.0	2	3/4	3.6	25.2	40.0				

*= T for Outdoors, N for Indoors, S for Beacon II™

[^] Consult factory for 50Hz applications.

[†] MCA = Minimum Circuit Ampacity

^{††} MOP = Maximum Overcurrent Protection

[‡] Condensing unit data plate ratings will be based on actual system match.

Specifications and Dimensional Data

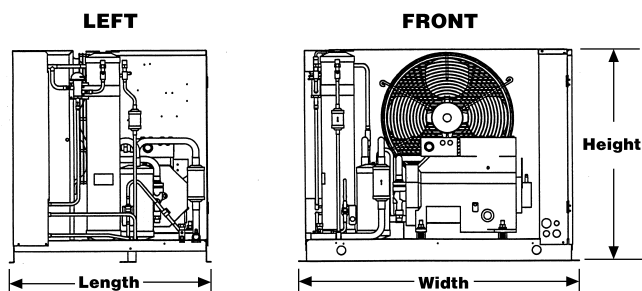
Medium & Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model	HP	Refrigerant Line Connections (OD)		Receiver Capacity @ 90% full (lbs.)		Dimensions (inches)			Approx. Net Wt. (lbs.)
			Liquid	Suction	STD	OPT	Length	Width	Height	
CB*0551M6	4C0969SH	5.5	5/8	1 3/8	67	78	36-3/4	63-3/4	39-1/4	823
CB*0751M6	4C1145SH	7.5	5/8	1 3/8	67	78	36-3/4	63-3/4	39-1/4	862
CB*0901M6	4C1385SH	9.0	7/8	1 5/8	67	87	41-3/4	75-1/8	48-3/4	993
CB*1001M6	4C1480PH	10.0	7/8	1 5/8	67	87	41-3/4	75-1/8	48-3/4	1,101
CB*0401L6	4C0969SL	4.0	1/2	1 1/8	28	52	36-3/4	51-3/4	39-1/4	595
CB*0551L6	4C1145SL	5.5	1/2	1 1/8	28	52	36-3/4	51-3/4	39-1/4	645
CB*0601L6	4C1385SL	6.0	5/8	1 3/8	67	78	36-3/4	63-3/4	39-1/4	775
CB*0611L6	4C1480PL	6.5	5/8	1 3/8	67	78	36-3/4	63-3/4	39-1/4	865
CB*0751L6	4C1761PL	7.5	5/8	1 3/8	67	78	36-3/4	63-3/4	39-1/4	935
CB*1001L6	4C2067PL	10.0	5/8	1 3/8	67	78	36-3/4	63-3/4	39-1/4	1,000
CB*1201L6	4C2397PL	12.0	7/8	1 5/8	67	87	41-3/4	75-1/8	48-3/4	1,082
CB*1301L6	4B2707PL	13.0	7/8	1 5/8	67	87	41-3/4	75-1/8	48-3/4	1,173

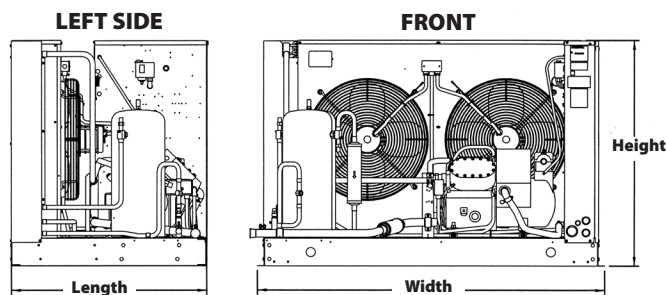
*= T for Outdoors, N for Indoors, S for Beacon II™

Horizontal Discharge

One Fan Condenser



Two Fan Condenser

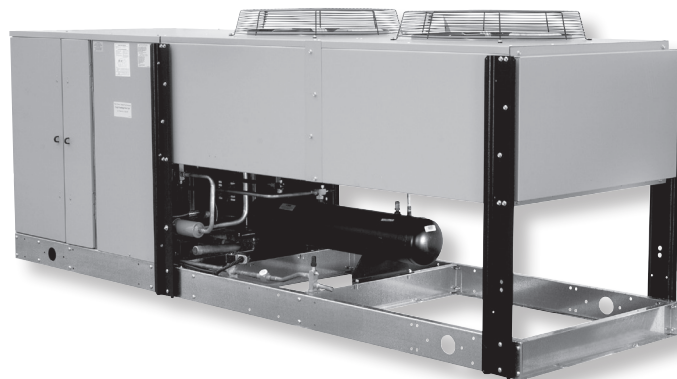


Vertical Air Discharge Condensing Units 13 to 50 HP

Single Compressor

Standard and Optional Features

- The Floating Tube™ coil design. Refrigerant-carrying copper tubes do not contact any metal support sheets; instead, the coil is constructed with expanded anchor tubes that support the coil construction and do not carry refrigerant. The coil design eliminates one of the major causes of leaks in refrigeration systems
- Limited five-year warranty against condenser tube sheet and center support leaks
- Designed for use with R-404A, R-507
- Prebent copper tubes minimize welded joints on internal piping
- All sweat type connections, no flare joints to leak
- Fixed high pressure switch eliminates capillary tubes
- Oil safety control
- Bitzer compressors with POE oil
- Spring mounted compressor with suction and discharge vibration eliminators
- Crankcase heater
- Thermally protected, permanently lubricated ball bearing condenser fan motors
- Separate subcooling circuit in condenser for added capacity and vapor-free liquid
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves
- Pressure relief valve on receiver
- Sealed liquid line filter drier and sight glass
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Service Mate™ module to assist troubleshooting
- Pumpdown Switch
- Cabinet is constructed from prepainted galvanized steel
- Convenient access panels for easy servicing to internal components
- Adjustable head pressure control valves



Factory-Installed Options



- Compressor unloading
- Replaceable core liquid filter drier
- Liquid line solenoid valve
- Suction filter
- Replaceable core suction filter
- Suction accumulator
- Oil separator with discharge line check valve
- Air defrost timer
- Electric defrost kits, including timer, evaporator fan contactor with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Fusing for defrost kits
- Evaporator holdout relays for systems with multiple electric defrost evaporators
- Low ambient kit with heated and insulated receiver with time delay
- Fused disconnect switch
- Non-fused disconnect switch
- Phase-loss protection
- Manual-reset high pressure switch
- Anti-short cycle timer
- Compressor circuit breakers
- Condenser fan cycling (standard on CDVS)
- Three-way heat reclaim valve (n/a on CDVS)
- Coated condenser coils for protection against corrosion in harsh environments
- Beacon II™ compatible

Nomenclature

C	D	V	000B	L	6	C
Brand		Airflow	Horsepower	Temp. Range	Refrigerant	Voltage
C = Climate Control	D -	V = Vertical VS = Vertical Beacon II™	130B - 13 150B - 15 200B - 20 220B - 22 250B - 25 300B - 30 330B - 33 350B - 35 400B - 40 500B - 50	M = Med. Temp. L = Low Temp.	6 = R-404A, R-507	C = 208-230/3/60 D = 460/3/60 E = 575/3/60

Performance Data

Medium Temperature – R-404A/R-507

Unit Model Number	Compressor Model	Suction Temp. °F	90°F Amb.	95°F Amb.	100°F Amb.	110°F Amb.
CDV*150BM6	4C2067PH	40	197120	188290	178750	162020
		30	165780	157400	150410	134650
		25	150650	143110	132640	121880
		20	136230	129380	123010	109570
		15	122680	116550	110440	98170
		5	98790	93540	88070	77590
CDV*200BM6	4C2397PH	40	230460	219760	209960	191380
		30	192070	183360	175590	157870
		25	174410	166320	158250	142410
		20	157400	150000	142470	127770
		15	141810	134810	127880	113890
		5	113840	107790	101800	89390
CDV*220BM6	4B2707PH	40	254200	244040	232880	213790
		30	212600	204700	195360	177890
		25	193960	185270	177330	161290
		20	175330	167820	160390	145490
		15	157850	150960	144070	130340
		5	127090	121320	115590	103770
CDV*250BM6	4B3139PH	40	291480	279820	268270	243980
		30	245260	234460	225090	204400
		25	222450	213660	203930	185400
		20	201510	193150	184500	167350
		15	181830	173860	165980	150090
		5	146820	140070	133380	119580
CDV*300BM6	4B3604PH	40	339410	324930	311370	285650
		30	284940	273150	261580	238360
		25	259200	248290	237590	215910
		20	235080	225050	214940	194800
		15	211960	202640	193290	174680
		5	171290	163320	155450	139050
CDV*330BM6	6B4060PH	40	385050	368290	352830	323590
		30	321570	308190	296110	268900
		25	292920	279790	267620	243190
		20	263780	252590	241230	218990
		15	237640	227190	216720	195850
		5	190700	181990	173230	155250
CDV*350BM6	6B4709PH	40	438780	421120	401770	368420
		30	369160	353880	338590	307100
		25	335750	321530	306610	278580
		20	303260	290650	277520	251470
		15	273630	261560	249500	225500
		5	220740	210580	200500	179780
CDV*400BM6	6B5406PH	40	505840	483740	463250	424260
		30	425630	408880	391180	355120
		25	388520	371110	354990	322990
		20	352010	336760	321570	291390
		15	317530	303520	289520	261700
		5	256880	245160	233350	209240
CDV*500BM6	6B6462PH	40	592370	567970	543770	494050
		30	501120	479900	485690	415900
		25	457060	437280	417510	378430
		20	414850	396510	378160	341770
		15	375030	357970	341040	307300
		5	304620	290190	275780	246360

CDV* = CDVS is Beacon II™

Notes: For 50 cycle capacity, multiply values by .86

Performance Data

Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model	Suction Temp. °F	90°F Amb.	95°F Amb.	100°F Amb.	110°F Amb.
CDV*130BL6	4B2707PL	0	105960	100880	95790	85810
		-10	81650	77300	72980	64920
		-15	70890	66880	62900	55370
		-20	61310	57620	53960	46770
		-30	46800	43630	40420	33650
		-40	39880	37260	34420	29100
CDV*150BL6	4B3139PL	0	123250	117250	111270	99750
		-10	95940	90740	85500	75940
		-15	83810	78930	74120	64930
		-20	73030	68530	63970	55110
		-30	56580	52580	48520	40050
		-40	48750	45290	41760	34500
CDV*200BL6	4B3604PL	0	141040	133910	126850	112960
		-10	110120	104050	97980	86810
		-15	96260	90640	85090	74470
		-20	83860	78710	73500	63370
		-30	64670	60140	55580	46070
		-40	55050	51170	47240	39070
CDV*220BL6	6B4060PL	0	156330	148990	141590	127330
		-10	120650	114230	107830	96230
		-15	104810	98870	92970	81890
		-20	90770	85340	79790	69200
		-30	69550	64720	59860	49790
		-40	59470	55420	51350	43220
CDV*250BL6	6B4709PL	0	184510	175840	166300	148750
		-10	142790	135120	127430	113350
		-15	124340	117270	110260	96980
		-20	107930	101510	94950	82350
		-30	83040	77430	71770	59880
		-40	71140	66410	61560	51750
CDV*300BL6	6B5406PL	0	204160	194480	190060	165790
		-10	158700	150250	141860	126570
		-15	138390	130550	122800	108090
		-20	120340	113100	105750	91680
		-30	92900	86400	79830	66380
		-40	80050	74380	68650	56190
CDV*400BL6	6B6462PL	0	245130	232960	220670	196830
		-10	189440	178850	168260	148730
		-15	164710	154820	144950	126420
		-20	142690	133540	124260	106400
		-30	109060	100910	92610	74580
		-40	93380	86320	79130	63910

CDV* = CDVS is Beacon II™

Notes: For 50 cycle capacity, multiply values by .86

Electrical Data

Medium & Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model	Compressor		Condenser Fan Motors		Beacon II™ or Air Defrost		Remote Loads [‡]			
		RLA	LRA	Qty.	FLA	MCA [†]	MOP ^{††}	Electric Defrost			
								Evap. Fan Amps	Defrost Heaters Amps	System MCA [†]	System MOP ^{††}
208-230 Volts											
CDV*150BM6	4C2067PH	48.7	294	2	9.6	70.5	110	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CDV*200BM6	4C2397PH	57.7	352	2	14.0	86.1	125				
CDV*220BM6	4B2707PH	61.5	352	2	14.0	90.9	150				
CDV*250BM6	4B3139PH	75.6	436	2	14.0	108.5	175				
CDV*300BM6	4B3604PH	89.7	490	3	21.0	133.1	200				
CDV*330BM6	6B4060PH	100.0	550	3	21.0	146.0	225				
CDV*350BM6	6B4709PH	105.1	550	3	21.0	152.4	250				
CDV*400BM6	6B5406PH	141.0	700	4	28.0	204.3	325				
CDV*500BM6	6B6462PH	143.6	950	4	28.0	207.5	350				
CDV*130BL6	4B2707PL	43.6	294	2	9.6	64.1	100				
CDV*150BL6	4B3139PL	46.2	294	2	9.6	67.4	110				
CDV*200BL6	4B3604PL	57.7	352	2	9.6	81.7	125				
CDV*220BL6	6B4060PL	65.4	436	2	14.0	95.8	150				
CDV*250BL6	6B4709PL	69.2	436	2	14.0	100.5	150				
CDV*300BL6	6B5406PL	84.6	490	2	14.0	119.8	200				
CDV*400BL6	6B6462PL	97.4	700	3	21.0	142.8	225				
460 Volts											
CDV*150BM6	4C2067PH	24.4	147	2	4.8	35.3	60	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CDV*200BM6	4C2397PH	28.8	176	2	7.0	43.0	70				
CDV*220BM6	4B2707PH	30.8	176	2	7.0	45.5	70				
CDV*250BM6	4B3139PH	37.8	218	2	7.0	54.3	90				
CDV*300BM6	4B3604PH	44.9	245	3	10.5	66.6	110				
CDV*330BM6	6B4060PH	50.0	275	3	10.5	73.0	110				
CDV*350BM6	6B4709PH	52.6	275	3	10.5	76.3	125				
CDV*400BM6	6B5406PH	70.5	350	4	14.0	102.1	150				
CDV*500BM6	6B6462PH	71.8	425	4	14.0	103.8	175				
CDV*130BL6	4B2707PL	21.8	147	2	4.8	32.1	50				
CDV*150BL6	4B3139PL	23.1	147	2	4.8	33.7	50				
CDV*200BL6	4B3604PL	28.8	176	2	4.8	40.8	70				
CDV*220BL6	6B4060PL	32.7	218	2	7.0	47.9	80				
CDV*250BL6	6B4709PL	34.6	218	2	7.0	50.3	80				
CDV*300BL6	6B5406PL	42.3	245	2	7.0	59.9	100				
CDV*400BL6	6B6462PL	48.7	350	3	10.5	71.4	110				
575 Volts											
CDV*150BM6	4C2067PH	19.6	117	2	4.6	29.1	40	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CDV*200BM6	4C2397PH	23.6	140	2	5.6	35.1	50				
CDV*220BM6	4B2707PH	24.4	140	2	5.6	36.1	60				
CDV*250BM6	4B3139PH	30.1	165	2	5.6	43.2	70				
CDV*300BM6	4B3604PH	35.9	196	3	8.4	53.3	80				
CDV*330BM6	6B4060PH	39.7	220	3	8.4	58.0	90				
CDV*350BM6	6B4709PH	41.7	220	3	8.4	60.5	100				
CDV*400BM6	6B5406PH	56.4	280	4	11.2	81.7	125				
CDV*500BM6	6B6462PH	57.1	340	4	11.2	82.6	125				
CDV*130BL6	4B2707PL	17.3	117	2	4.6	26.2	40				
CDV*150BL6	4B3139PL	18.6	117	2	4.6	27.9	45				
CDV*200BL6	4B3604PL	23.1	140	2	4.6	33.5	50				
CDV*220BL6	6B4060PL	26.9	174	2	5.6	38.5	60				
CDV*250BL6	6B4709PL	27.6	174	2	5.6	40.1	60				
CDV*300BL6	6B5406PL	33.3	196	2	5.6	47.2	80				
CDV*400BL6	6B6462PL	39.1	280	3	8.4	57.3	90				

CDV* = CDVS is Beacon II™

† MCA = Minimum Circuit Ampacity

†† MOP = Maximum Overcurrent Protection

‡ Condensing unit data plate ratings will be based on actual system match.

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single (CDV) condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming. This option is not needed on Beacon II™ (CDVS) systems wired for a Master / Slave operation. Power is brought to each Beacon evaporator. Each coil terminates its own defrost. Refrigeration will not start until all coils have terminated defrost.

Specifications and Dimensional Data

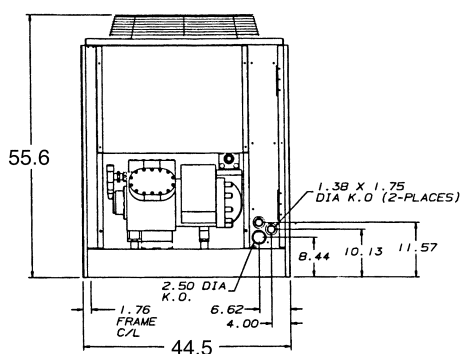
Medium & Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model	HP	Refrigerant Line Connections (OD)		CDV & Beacon II Receiver Capacity @ 90% full (lbs.s)		Dimensions (inches)	Approx. Net Wt. (lbs.)
			Liquid	Suction	LBS	KG	Length (A)	
CDV*150BM6	4C2067PH	15	7/8	1-5/8	123	56	144	1,400
CDV*200BM6	4C2397PH	20	7/8	1-5/8	123	56	171	1,625
CDV*220BM6	4B2707PH	22	1-1/8	2-1/8	123	56	171	1,690
CDV*250BM6	4B3139PH	25	1-1/8	2-1/8	123	56	171	1,935
CDV*300BM6	4B3604PH	30	1-1/8	2-1/8	188	85	226	1,615
CDV*330BM6	6B4060PH	33	1-1/8	2-1/8	188	85	226	1,785
CDV*350BM6	6B4709PH	35	1-1/8	2-1/8	188	85	226	1,885
CDV*400BM6	6B5406PH	40	1-1/8	2-1/8	188	85	281	2,440
CDV*500BM6	6B6462PH	50	1-1/8	2-1/8	188	85	281	2,835
CDV*130BL6	4B2707PL	13	7/8	1-5/8	81	37	144	1,590
CDV*150BL6	4B3139PL	15	7/8	1-5/8	81	37	144	1,800
CDV*200BL6	4B3604PL	20	7/8	2-1/8	81	37	144	1,870
CDV*220BL6	6B4060PL	22	7/8	2-1/8	123	56	171	2,075
CDV*250BL6	6B4709PL	25	1-1/8	2-1/8	123	56	171	2,170
CDV*300BL6	6B5406PL	30	1-1/8	2-1/8	123	56	171	2,180
CDV*400BL6	6B6462PL	40	1-1/8	2-1/8	188	85	226	1,920

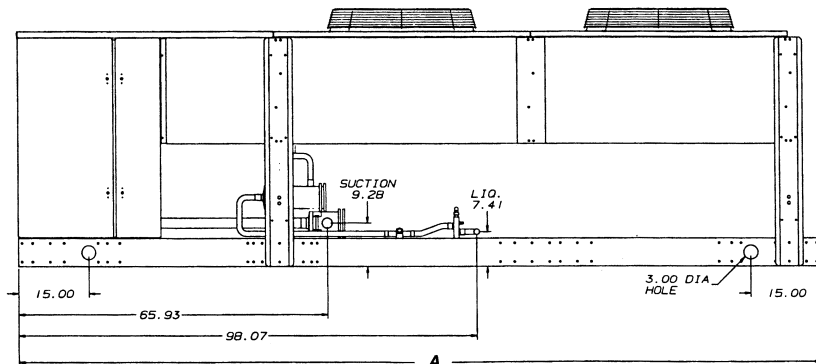
CDV*= CDVS is Beacon II™

Dimensions (Inches)

End View



Side View



Vertical Air Discharge Condensing Units 26 to 100 HP

Dual Compressor

Standard and Optional Features

- Designed for use with R-404A/507
- Bitzer compressors with POE oil
- Thermally protected permanently lubricated ball bearing condenser fan motors
- Electrical controls, including compressor contactor and optional defrost control, are located in easily accessible control box with a hinged cover
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves
- Cabinet is constructed from prepainted galvanized steel
- Convenient access panels for easy servicing to internal components
- Suction and discharge vibration eliminators
- Separate subcooling circuit in condensers for added capacity and vapor-free liquid
- Sealed liquid line filter drier and sight glass
- Service Mate™ module to assist troubleshooting
- Floating Tube™ coil design
- Prebent copper tubes minimize welded joints on internal piping
- Adjustable head pressure control valves



Factory-Installed Options

- Replaceable core liquid line filter driers with sight glasses
- Liquid line solenoid valves
- Suction filters
- Replaceable core suction filters
- Suction accumulators
- Oil separators with discharge line check valves
- Air defrost timers
- Electric defrost kits, including timer, evaporator fan contactor with fusing, defrost heater contactor(s), lockout relay and terminal strip
- Low ambient kits with heated and insulated receiver with time delay
- Compressor unloading
- External discharge line mufflers
- Phase-loss protection
- Manual-reset high pressure switches
- Anti-short cycling timers
- Compressor circuit breakers
- Condenser fan cycling (standard on CDDS)
- Three way heat reclaim valve with mounted check valves
- Coated condenser coils for protection against corrosion in harsh environments
- Beacon II™ compatible

Additional Standard Features for Parallel Piped Units

1. Replaceable core liquid line filter drier
2. Replaceable core suction filter
3. Suction accumulator
4. Oil management system
5. Contact Factory for Beacon II™ Application

Nomenclature						
C	D	D	000B	L	6	C
Brand		Airflow	Horsepower	Temp. Range	Refrigerant	Voltage
C = Climate Control	D -	D = Vertical DS = Vertical Beacon II™	260B - 26 300B - 30 400B - 40 440B - 44 500B - 50 600B - 60 660B - 66 700B - 70 800B - 80 110B - 100	M = Med. Temp. L = Low Temp.	6 = R-404A, R-507	C = 208-230/3/60 D = 460/3/60 E = 575/3/60

Performance Data

Medium Temperature – R-404A/R-507

Unit Model Number	Compressor Model (2 Each)	Suction Temp. °F	90°F Amb.	95°F Amb.	100°F Amb.	110°F Amb.
CDD*300BM6	4C2067PH	40	394250	376590	357490	324040
		30	331570	314800	300810	269290
		25	301290	286220	265290	243760
		20	272450	258760	246010	219040
		15	245360	233090	220890	196340
		5	197580	187090	176140	155170
CDD*400BM6	4C2397PH	40	460920	439520	419910	382760
		30	384140	366730	351180	315740
		25	348820	332640	316500	284830
		20	314800	299990	284950	255530
		15	283620	269620	255760	227790
		5	227670	215570	203590	178780
CDD*440BM6	4B2707PH	40	508400	488080	465770	427590
		30	425210	409390	390720	355770
		25	387920	370550	354660	322580
		20	350670	335640	320780	290970
		15	315710	301920	288130	260680
		5	254190	242630	231170	207540
CDD*500BM6	4B3139PH	40	582960	559640	536530	487960
		30	490520	468920	450170	408790
		25	444900	427310	407850	370800
		20	403020	386290	369000	334690
		15	363660	347710	331970	300180
		5	293650	280140	266760	239150
CDD*600BM6	4B3604PH	40	678820	649850	622730	571310
		30	569890	546290	523150	476730
		25	518410	496570	475180	431820
		20	470170	450090	429890	389600
		15	423920	405270	386590	349370
		5	342580	326630	310890	278110
CDD*660BM6	6B4060PH	40	770100	736570	705660	647170
		30	643130	616390	592210	537790
		25	585850	559580	535230	486380
		20	527550	505170	482450	437980
		15	475270	454380	433450	391700
		5	381390	363990	346540	310500
CDD*700BM6	6B4709PH	40	877570	842230	803550	736830
		30	738320	707760	677170	614200
		25	671500	643050	613220	557150
		20	606520	581300	555030	502940
		15	547270	523130	498990	451000
		5	441480	421160	400990	359560
CDD*800BM6	6B5406PH	40	1011680	967490	926490	848530
		30	851260	817760	782360	710240
		25	777050	742220	709980	645990
		20	704020	673510	643140	582780
		15	635050	607050	579050	523390
		5	513760	490320	466700	418470
CDD*110BM6	6B6462PH	40	1184730	1135930	1087530	988100
		30	1002230	959810	917380	831800
		25	914120	874560	835020	756870
		20	829690	793020	756310	683550
		15	750050	715930	682090	614590
		5	609230	580370	551560	492720

CDD* = CDDs is Beacon II™, CDD*PP is Parallel Piped

Performance Data

Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model (2 Each)	Suction Temp. °F	90°F Amb.	95°F Amb.	100°F Amb.	110°F Amb.
CDD*260BL6	4B2707PL	0	211930	201760	191580	171630
		-10	163290	154600	145970	129850
		-15	141770	133760	125810	110740
		-20	122620	115230	107910	93530
		-30	93600	87260	80840	67290
		-40	79760	74510	68840	58200
CDD*300BL6	4B3139PL	0	246490	234490	222550	199500
		-10	191890	181480	170990	151890
		-15	167610	157870	148240	129860
		-20	146060	137070	129950	110220
		-30	113170	105150	97030	80094
		-40	97500	90590	83510	68990
CDD*400BL6	4B3604PL	0	282080	267830	253710	225910
		-10	220240	208090	195590	173620
		-15	192520	181280	170180	148940
		-20	167720	157420	146990	126740
		-30	129340	120290	111160	92150
		-40	110090	102350	94480	78130
CDD*440BL6	6B4060PL	0	312650	297970	283180	254650
		-10	241300	228460	215670	192460
		-15	209620	197730	185940	163780
		-20	181550	170680	159580	138390
		-30	139100	129450	119730	99570
		-40	118940	110850	102700	86450
CDD*500BL6	6B4709PL	0	369030	350950	332610	297490
		-10	285580	270240	254860	226690
		-15	248670	234530	220520	193970
		-20	215850	203020	189890	164690
		-30	166080	154850	143530	119770
		-40	142280	132800	123120	103500
CDD*600BL6	6B5406PL	0	408320	388960	380130	331580
		-10	317410	300490	283720	253140
		-15	276770	261100	245600	216170
		-20	240670	226200	211500	183350
		-30	185790	172800	159650	132760
		-40	160100	148770	137310	112380
CDD*800BL6	6B6462PL	0	490250	465930	441340	393670
		-10	378890	357700	336520	297450
		-15	329420	309630	289900	252840
		-20	285380	267080	248530	212800
		-30	218130	201830	185220	149700
		-40	186770	172630	158260	127820

CDD* = CDD is Beacon II™, CDD*PP is Parallel Piped

Electrical Data

Medium & Low Temperature – R-404A/507

Unit Model Number	Compressor Model (2 Each)	Compressor		Condenser Fan Motors		Beacon II™ or Air Defrost		Remote Loads †			
		RLA	LRA	Qty.	FLA	MCA†	MOP††	Electric Defrost			
								Evap. Fan Amps	Defrost Heaters Amps	System MCA†	System MOP††
208-230 Volts											
CDD*300BM6	4C2067PH	48.7	294	4	19.2	128.8	175	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CDD*400BM6	4C2397PH	57.7	352	4	28.0	157.8	200				
CDD*440BM6	4B2707PH	61.5	352	4	28.0	166.4	225				
CDD*500BM6	4B3139PH	75.6	436	4	28.0	198.1	250				
CDD*600BM6	4B3604PH	89.7	490	6	42.0	243.8	325				
CDD*660BM6	6B4060PH	100.0	550	6	42.0	267.0	350				
CDD*700BM6	6B4709PH	105.1	550	6	42.0	278.5	350				
CDD*800BM6	6B5406PH	141.0	700	8	56.0	373.3	500				
CDD*110BM6	6B6462PH	143.6	950	8	56.0	379.1	500				
CDD*260BL6	4B2707PL	43.6	294	4	19.2	117.3	150				
CDD*300BL6	4B3139PL	46.2	294	4	19.2	123.2	150				
CDD*400BL6	4B3604PL	57.7	352	4	19.2	149.0	200				
CDD*440BL6	6B4060PL	65.4	436	4	28.0	175.2	225				
CDD*500BL6	6B4709PL	69.2	436	4	28.0	183.7	250				
CDD*600BL6	6B5406PL	84.6	490	4	28.0	218.4	300				
CDD*800BL6	6B6462PL	97.4	700	6	42.0	261.2	350				
460 Volts											
CDD*300BM6	4C2067PH	24.4	147	4	9.6	64.5	80	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CDD*400BM6	4C2397PH	28.8	176	4	14.0	78.8	100				
CDD*440BM6	4B2707PH	30.8	176	4	14.0	83.3	110				
CDD*500BM6	4B3139PH	37.8	218	4	14.0	99.1	125				
CDD*600BM6	4B3604PH	44.9	245	6	21.0	122.0	150				
CDD*660BM6	6B4060PH	50.0	275	6	21.0	133.5	175				
CDD*700BM6	6B4709PH	52.6	275	6	21.0	139.4	175				
CDD*800BM6	6B5406PH	70.5	350	8	28.0	186.6	250				
CDD*110BM6	6B6462PH	71.8	425	8	28.0	189.6	250				
CDD*260BL6	4B2707PL	21.8	147	4	9.6	58.7	80				
CDD*300BL6	4B3139PL	23.1	147	4	9.6	61.6	80				
CDD*400BL6	4B3604PL	28.8	176	4	9.6	74.4	100				
CDD*440BL6	6B4060PL	32.7	218	4	14.0	87.6	110				
CDD*500BL6	6B4709PL	34.6	218	4	14.0	91.9	125				
CDD*600BL6	6B5406PL	42.3	245	4	14.0	109.2	150				
CDD*800BL6	6B6462PL	48.7	350	6	21.0	130.6	175				
575 Volts											
CDD*300BM6	4C2067PH	19.6	117	4	9.2	53.3	70	CONTACT FACTORY FOR SYSTEM ELECTRICAL RATINGS			
CDD*400BM6	4C2397PH	23.6	140	4	11.2	64.3	80				
CDD*440BM6	4B2707PH	24.4	140	4	11.2	66.1	90				
CDD*500BM6	4B3139PH	30.1	165	4	11.2	78.9	100				
CDD*600BM6	4B3604PH	35.9	196	6	16.8	97.6	125				
CDD*660BM6	6B4060PH	39.7	220	6	16.8	106.1	125				
CDD*700BM6	6B4709PH	41.7	220	6	16.8	110.6	150				
CDD*800BM6	6B5406PH	56.4	280	8	22.4	149.3	200				
CDD*110BM6	6B6462PH	57.1	340	8	22.4	150.9	200				
CDD*260BL6	4B2707PL	17.3	117	4	9.2	48.1	60				
CDD*300BL6	4B3139PL	18.6	117	4	9.2	51.1	70				
CDD*400BL6	4B3604PL	23.1	140	4	9.2	61.2	80				
CDD*440BL6	6B4060PL	26.3	174	4	11.2	70.4	90				
CDD*500BL6	6B4709PL	27.6	174	4	11.2	73.3	100				
CDD*600BL6	6B5406PL	33.3	196	4	11.2	86.1	110				
CDD*800BL6	6B6462PL	39.1	280	6	16.8	104.8	125				

CDD* = CDD is Beacon II™, CDD*PP is Parallel Piped

† MCA = Minimum Circuit Ampacity

†† MOP = Maximum Overcurrent Protection

‡ Condensing unit data plate ratings will be based on actual system match.

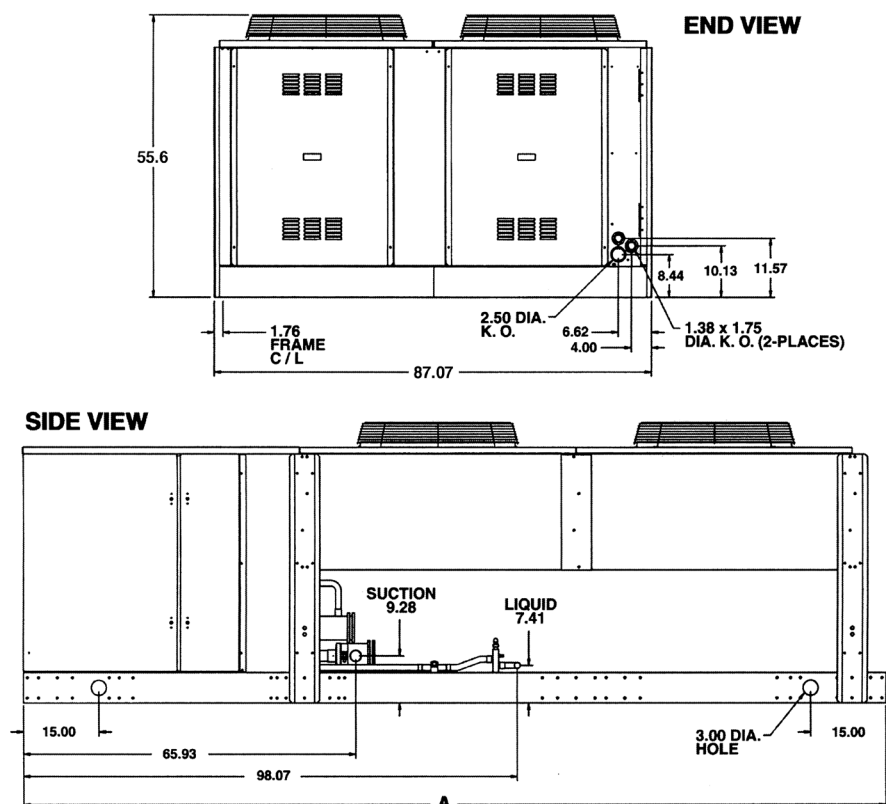
Specifications and Dimensional Data

Medium & Low Temperature – R-404A/R-507

Unit Model Number	Compressor Model (2 Each)	HP	Connections (in.c)				Standard Receiver Capacity @ 90% full (lbs.) (2 each)		Parallel Piped Receiver Capacity @ 90% full (lbs.)		Dimensions (inches)	Approx. Net Wt (lbs.)
			Standard (2 each)		Parallel Piped		LBS	KG	LBS	KG	Length (A)	
			Liquid	Suction	Liquid	Suction						
CDD*300BM6	4C2067PH	30	7/8	1-5/8	1-1/8	2-1/8	123	56	188	85	144	2,805
CDD*400BM6	4C2397PH	40	7/8	1-5/8	1-1/8	2-1/8	123	56	188	85	171	3,250
CDD*440BM6	4B2707PH	44	1-1/8	2-1/8	1-1/8	2-1/8	123	56	269	122	171	3,380
CDD*500BM6	4B3139PH	50	1-1/8	2-1/8	1-3/8	2-5/8	123	56	269	122	171	3,875
CDD*600BM6	4B3604PH	60	1-1/8	2-1/8	1-3/8	2-5/8	188	85	269	122	226	3,225
CDD*660BM6	6B4060PH	66	1-1/8	2-1/8	1-3/8	2-5/8	188	85	269	122	226	3,570
CDD*700BM6	6B4709PH	70	1-1/8	2-1/8	1-5/8	3-1/8	188	85	363	165	226	3,770
CDD*800BM6	6B5406PH	80	1-1/8	2-1/8	1-5/8	3-1/8	188	85	363	165	281	4,880
CDD*110BM6	6B6462PH	100	1-1/8	2-1/8	1-5/8	3-1/8	188	85	363	165	281	5,670
CDD*260BL6	4B2707PL	26	7/8	1-5/8	1-1/8	2-1/8	81	37	188	85	144	3,175
CDD*300BL6	4B3139PL	30	7/8	1-5/8	1-1/8	2-5/8	81	37	188	85	144	3,605
CDD*400BL6	4B3604PL	40	7/8	2-1/8	1-1/8	2-5/8	81	37	188	85	144	3,735
CDD*440BL6	6B4060PL	44	7/8	2-1/8	1-3/8	3-1/8	123	56	269	122	171	4,145
CDD*500BL6	6B4709PL	50	1-1/8	2-1/8	1-3/8	3-1/8	123	56	269	122	171	4,240
CDD*600BL6	6B5406PL	60	1-1/8	2-1/8	1-3/8	3-1/8	123	56	269	122	171	4,355
CDD*800BL6	6B6462PL	80	1-1/8	2-1/8	1-3/8	3-1/8	188	85	363	165	226	3,835

CDD* = CDDs is Beacon II™, CDD*PP is Parallel Piped

Dimensions (Inches)



Notes

For more information on Climate Control products,
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